



STATE OF CONNECTICUT

OFFICE OF POLICY AND MANAGEMENT

April 23, 2009

TO: The Honorable Toni Nathaniel Harp, Co-Chair
The Honorable John C. Geragosian, Co-Chair
The Honorable Dan Debicella, Ranking Member
The Honorable Craig A. Miner, Ranking Member
Members of the Appropriations Committee

FR: Michael Cicchetti, Deputy Secretary

A handwritten signature in black ink, appearing to be "MC", written over a horizontal line.

RE: American Recovery and Reinvestment Act, State Energy Program Application

Pursuant to Section 1 of Public Act 09-3 please find the attached application as prepared for the State Energy Program of the American Recovery and Reinvestment Act of 2009, P.L. 111-5, funding opportunity number DE-FOA-0000052. The deadline to submit this grant application to the U.S. Department of Energy is 8:00 pm. on May 12, 2009. As required under Public Act 09-3, this application is being submitted to the State of Connecticut Appropriations and Energy and Technology Committees at least fourteen days prior to the U.S. Department of Energy's submission deadline. In addition to the application package, I have included a three page summary of the proposed funding allocations included in the application.

The application package represents a program that will serve to support the goals and objectives of Connecticut's energy efficiency, conservation and renewable framework as articulated in Governor Rell's *Connecticut's Energy Vision*, *The Connecticut Climate Action Plan*, and Connecticut General Statute, Section 16a-35k. The program will also support and enhance the goals as required under the American Recovery and Reinvestment Act State Energy Program by increasing energy efficiency, reducing energy costs and consumption for consumers, businesses and government, reducing reliance on imported oil, and reducing the impacts of energy production and use on the environment, while enhancing job creation in energy and related sectors.

The Office of Policy and Management is available to answer any questions you have and we look forward to presenting testimony at a subject matter public hearing when scheduled.

ARRA - SEP Allocation Plan

RENEWABLE ENERGY

\$20 million

Program	Detail	Who	Allocation	mmBtu Savings
Geothermal Incentives	A new program to incentive residential and commercial geothermal systems. Incentive to be a simple rebate based on system capacity. Available to both new and retrofit applications. Goal of 600 installations.	Clean Energy Fund	\$ 5 million	65,018
Solar Thermal Incentives	A new program to incentive residential and commercial solar thermal systems. Incentive to be a simple rebate based on system capacity. Available to both new and retrofit applications. Goal of 1,000 installations.	Clean Energy Fund	\$ 4 million	37,783
Fuel Cell Incentives	Expansion of current CEF fuel cell incentive program. Goal of 14 completed projects.	Clean Energy Fund	\$ 8 million	169,232
Solar Photovoltaic	Expansion of current CEF PV incentive program for residential and commercial applications. Goal of 300 additional projects completed.	Clean Energy Fund	\$ 3 million	16,530

ARRA - SEP Allocation Plan

ENERGY EFFICIENCY/CONSERVATION

\$17.5 million

Program	Detail	Who	Allocation	mmbtu Savings
Home Energy Solutions	Expansion of existing CEEF program and the CL&P, UI, CMEEC comparable CMEEC program providing residential customers with both an energy audit and low cost energy efficiency technologies. Funding will in part be used to continue access to this program by oil-heated households on an equal co-pay basis.		\$ 6.25 million	334,900
Small Business Energy Advantage	Expansion of existing CEEF program targeting small commercial business. Commercial customers in CMEEC territories to be covered under Energy Opportunities program. Goal of 417 additional businesses served.	CL&P, UI	\$ 2.875 million	350,412
Energy Opportunities	Expansion of existing CEEF program and comparable CMEEC commercial program that helps larger businesses maximize electric and natural gas savings. Goal of 153 additoianl projects.	CL&P, UI, CMEEC	\$ 3.375 million	572,920
State Building Energy Improvements	A new initiative to fund a variety of projects within state-owned facilities. Priority will be given to projects that can leverage other resources and incentives available.	DPW	\$ 5.0 million	50,000

ARRA - SEP Allocation Plan

TRAINING & ADMINISTRATIVE SUPPORT

\$1.042 million

Program	Detail	Who	Allocation	mmBtu Savings
Building Operator Certification Training	BOC courses provide training to building management personnel to help improve operations. A total of 7 training courses would be made available to State and municipal employees (240 students).	OPM	\$ 0.25 million	49,400
Building Code Training and Monitoring	Funding to provide training and monitoring for State and local building inspectors to ensure compliance with new building code energy components.	DPS	\$ 0.3 million	152,000
Clean Cities Support	Administrative support to the four CT Clean Cities Coalitions. This funding will allow them to continue to facilitate growth of alternative fuel technologies and to apply for additional ARRA funding.	Greater NH CCC, CC of Southwestern CT, Norwich CC, and Capitol CC	\$ 0.2 million	0 *
Administrative Support	Provides administrative support (payroll and other expenses) incurred by OPM to administer SEP, SEP ARRA, and EECBG resources.	OPM	\$ 0.292 million	0 *

* It is customary to attribute zero savings to administrative dollars.

Opportunity Title:	Recovery Act - State Energy Program
Offering Agency:	National Energy Technology Laboratory
CFDA Number:	81.041
CFDA Description:	State Energy Program
Opportunity Number:	DE-FOA-0000052
Competition ID:	
Opportunity Open Date:	03/12/2009
Opportunity Close Date:	05/12/2009
Agency Contact:	Sheldon Funk Contract Specialist E-mail: sheldon.funk@netl.doe.gov Phone: 304-285-0204

This electronic grants application is intended to be used to apply for the specific Federal funding opportunity referenced here.

If the Federal funding opportunity listed is not the opportunity for which you want to apply, close this application package by clicking on the "Cancel" button at the top of this screen. You will then need to locate the correct Federal funding opportunity, download its application and then apply.

This opportunity is only open to organizations, applicants who are submitting grant applications on behalf of a company, state, local or tribal government, academia, or other type of organization.

* **Application Filing Name:** CT Office of Policy and Management

Mandatory Documents

Other Attachments Form

Move Form to
Complete

Move Form to
Delete

Mandatory Documents for Submission

Application for Federal Assistance (SF-424)

Project/Performance Site Location(s)

Optional Documents

Disclosure of Lobbying Activities (SF-LLL)

Move Form to
Submission List

Move Form to
Delete

Optional Documents for Submission

Instructions

- Enter a name for the application in the Application Filing Name field.

 - This application can be completed in its entirety offline; however, you will need to login to the Grants.gov website during the submission process.
 - You can save your application at any time by clicking the "Save" button at the top of your screen.
 - The "Save & Submit" button will not be functional until all required data fields in the application are completed and you clicked on the "Check Package for Errors" button and confirmed all data required data fields are completed.
- Open and complete all of the documents listed in the "Mandatory Documents" box. Complete the SF-424 form first.

 - It is recommended that the SF-424 form be the first form completed for the application package. Data entered on the SF-424 will populate data fields in other mandatory and optional forms and the user cannot enter data in these fields.
 - The forms listed in the "Mandatory Documents" box and "Optional Documents" may be predefined forms, such as SF-424, forms where a document needs to be attached, such as the Project Narrative or a combination of both. "Mandatory Documents" are required for this application. "Optional Documents" can be used to provide additional support for this application or may be required for specific types of grant activity. Reference the application package instructions for more information regarding "Optional Documents".
 - To open and complete a form, simply click on the form's name to select the item and then click on the => button. This will move the document to the appropriate "Documents for Submission" box and the form will be automatically added to your application package. To view the form, scroll down the screen or select the form name and click on the "Open Form" button to begin completing the required data fields. To remove a form/document from the "Documents for Submission" box, click the document name to select it, and then click the <= button. This will return the form/document to the "Mandatory Documents" or "Optional Documents" box.
 - All documents listed in the "Mandatory Documents" box must be moved to the "Mandatory Documents for Submission" box. When you open a required form, the fields which must be completed are highlighted in yellow with a red border. Optional fields and completed fields are displayed in white. If you enter invalid or incomplete information in a field, you will receive an error message.
- Click the "Save & Submit" button to submit your application to Grants.gov.

 - Once you have properly completed all required documents and attached any required or optional documentation, save the completed application by clicking on the "Save" button.
 - Click on the "Check Package for Errors" button to ensure that you have completed all required data fields. Correct any errors or if none are found, save the application package.
 - The "Save & Submit" button will become active; click on the "Save & Submit" button to begin the application submission process.
 - You will be taken to the applicant login page to enter your Grants.gov username and password. Follow all onscreen instructions for submission.

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission:

- ☐ Preapplication
☒ Application
☐ Changed/Corrected Application

* 2. Type of Application:

- ☒ New
☐ Continuation
☐ Revision

* If Revision, select appropriate letter(s):

* Other (Specify)

* 3. Date Received:

Completed by Grants.gov upon submission.

4. Applicant Identifier:

5a. Federal Entity Identifier:

* 5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name: Connecticut Office of Policy and Management

* b. Employer/Taxpayer Identification Number (EIN/TIN):

06-6000798

* c. Organizational DUNS:

807853015

d. Address:

* Street1:

450 Capitol Avenue, MS52ENR

Street2:

* City:

Hartford

County:

* State:

CT: Connecticut

Province:

* Country:

USA: UNITED STATES

* Zip / Postal Code:

06106-1379

e. Organizational Unit:

Department Name:

Division Name:

Policy Development & Planning

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

Mr.

* First Name:

John

Middle Name:

* Last Name:

Ruckes

Suffix:

Title:

Organizational Affiliation:

* Telephone Number: 860-418-6384

Fax Number: 860-418-6495

* Email: john.ruckes@ct.gov

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

National Energy Technology Laboratory

11. Catalog of Federal Domestic Assistance Number:

81.041

CFDA Title:

State Energy Program

* 12. Funding Opportunity Number:

DE-FOA-0000052

* Title:

Recovery Act - State Energy Program

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Entire State

* 15. Descriptive Title of Applicant's Project:

State Energy Program Recovery Act (ARRA)

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

<input type="text"/>	<input type="button" value="Add Attachment"/>	<input type="button" value="Delete Attachment"/>	<input type="button" value="View Attachment"/>
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17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="38,542,000.00"/>
* b. Applicant	<input type="text" value="0.00"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="1,006,200.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="39,548,200.00"/>

* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

- ☒ a. This application was made available to the State under the Executive Order 12372 Process for review on
- ☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☐ c. Program is not covered by E.O. 12372.

* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)

☐ Yes ☒ No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:
Middle Name:
* Last Name:
Suffix:

* Title:

* Telephone Number: Fax Number:

* Email:

* Signature of Authorized Representative: * Date Signed:

Application for Federal Assistance SF-424

Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

Project/Performance Site Location(s)

Project/Performance Site Primary Location ☐ I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name: Connecticut Office of Policy and Management

DUNS Number: 8078530150000

* Street1: 450 Capitol Avenue, MS 52ENR

Street2:

* City: Hartford

County:

* State: CT: Connecticut

Province:

* Country: USA: UNITED STATES

* ZIP / Postal Code: 06106-1379

* Project/ Performance Site Congressional District: CT-all

Project/Performance Site Location 1

☐ I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name:

DUNS Number:

* Street1:

Street2:

* City:

County:

* State:

Province:

* Country: USA: UNITED STATES

* ZIP / Postal Code:

* Project/ Performance Site Congressional District:

DOE F 540.1
(08/05)

U.S. Department of Energy

STATE ENERGY PROGRAM (SEP)

NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Geothermal Incentive Program

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input checked="" type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input checked="" type="checkbox"/> General energy efficiency for industry | <input checked="" type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input checked="" type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input checked="" type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 65,018,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

Ground-Source Heat Pump Program - This is a new program, which would offer a grant for new or retrofit systems. The grant would be a simple rebate based on SRCC ratings for system capacity. Guidelines will be established for determining the maximum size of the system that will be incented for each site. Although the program will be open to all residential and non-residential entities, it is expected that the majority of the installations will be in homes, particularly in the first two years of the program, owing to the time required to properly plan, engineer and construct a commercial project.

7. Program Year Milestones* :

Milestone		Planned (Number)
1	Installations completed	600

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$5,000,000.00
Other	
Utility companies	
Market Budget Total	\$5,000,000.00

DOE F 540.1
08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Geothermal Incentive Program

b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1
(08/05)

U.S. Department of Energy

STATE ENERGY PROGRAM (SEP)

NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Solar Thermal

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input checked="" type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input checked="" type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input checked="" type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input checked="" type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 37,783,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

Solar Thermal Program - This is a new program, aimed at homeowners and business owners who wish to supplement their existing (or planned) domestic hot water (DHW) systems with solar collectors. A simple rebate program providing an incentive is expected to provide 1,750 new projects, primarily residential, over the first two years. The program would be open to all customers currently using gas, oil or electricity for DHW, and to builders planning to use these fuels for their planned DHW systems.

7. Program Year Milestones* :

Milestone		Planned (Number)
1	# of projects	1,000

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$4,000,000.00
Other	
Utility companies	
Market Budget Total	\$4,000,000.00

DOE F 540.1
08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET
 (Grant Number: TO12569)

OMB: Control No. 1910-5126
 Expiration Date: 06/30/08

Market Title: Solar Thermal

b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Fuel Cell Program

1. Market (choose one):

- | | |
|-------------------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input checked="" type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|-------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input checked="" type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input checked="" type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input checked="" type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input checked="" type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 169,232,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

This grant program would support the installation of fuel cells in appropriate applications where a minimum of 50% of the waste heat is utilized. The funding would extend the current On-Site Distributed Generation Program, under the same incentive structure.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	Completed Fuel Cell Projects	14

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$8,000,000.00
Other	\$173,100.00
Utility companies	
Market Budget Total	\$8,173,100.00

DOE F 540.1
08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET
(Grant Number: TO12569)

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

Market Title: Fuel Cell Program

b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1
(08/05)

U.S. Department of Energy

STATE ENERGY PROGRAM (SEP)

NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Solar PV Program

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|-------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input checked="" type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing | <input checked="" type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| ** | <input type="checkbox"/> Heavy vehicles and trucks | <input checked="" type="checkbox"/> Solar power |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input checked="" type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Policy and energy legislation | |
| <input type="checkbox"/> ENERGY STAR | | |

5. Estimated Annual Energy Savings : 16,530,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

This grant program would be open to all Connecticut residential and commercial customers, and run under the same rules as the Solar Rebate Program for homeowners and the On-Site Renewable DG Program for commercial entities. A grant of up to \$2,000/kWPTC would be awarded, subject to performance adjustments. It is expected that most not-for-profit applications will be submitted to the existing OSDG Program, which offers substantially higher incentives to compensate for the inability to take advantage of federal tax credits.

7. Program Year Milestones* :

Milestone		Planned (Number)
1	Projects completed	300

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$3,000,000.00
Other	\$173,100.00
Utility companies	
Market Budget Total	\$3,173,100.00

DOE F 540.1
(08/05)

U.S. Department of Energy
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NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Solar PV Program

b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1
(08/05)

U.S. Department of Energy

STATE ENERGY PROGRAM (SEP)

NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Home Energy Solutions

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input checked="" type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input checked="" type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input checked="" type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing | <input checked="" type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| ** | <input type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydropower | <input checked="" type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Commercial buildings | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Demand reduction | <input checked="" type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Manufacturing | <input checked="" type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Policy and energy legislation | |
| <input type="checkbox"/> ENERGY STAR | | |

5. Estimated Annual Energy Savings : 334,900,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

Residents can lower their energy bill with just one, in-home visit. A specialist will perform an energy assessment of the home, find and professionally seal critical leaks and drafts, replace incandescent bulbs with compact fluorescents lamps, provide and install water conservation devices and check insulation and appliances. Residents may also receive valuable rebate forms (including rebates for geothermal system performance and for the installation of high-efficiency central air conditioning and heat pump systems), and information on additional energy-saving measures. There is a low, \$75 charge for this program for customers who heat their homes with electricity or natural gas. Typically, Oil-heat customers can also participate for \$300 but with the addition of ARRA funds, oil heat customers will be able to participate for \$75.

7. Program Year Milestones* :

Milestone		Planned (Number)
1	# households completed	8,100

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OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Home Energy Solutions

3. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$6,250,000.00
Other	
Utility companies	
Market Budget Total	\$6,250,000.00
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1
(08/05)

U.S. Department of Energy

STATE ENERGY PROGRAM (SEP)

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OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Small Business Energy Advantage

1. Market (choose one):

- | | |
|-------------------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input checked="" type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input checked="" type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input checked="" type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input checked="" type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| ** | <input type="checkbox"/> Heavy vehicles and trucks | <input checked="" type="checkbox"/> Solar power |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input checked="" type="checkbox"/> Demand reduction | <input checked="" type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Low-income Weatherization | <input checked="" type="checkbox"/> Waste management and recycling |
| <input checked="" type="checkbox"/> Energy and environment | <input checked="" type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy building codes | <input checked="" type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input checked="" type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Policy and energy legislation | |
| <input checked="" type="checkbox"/> ENERGY STAR | | |

5. Estimated Annual Energy Savings : 350,412,400.00 MBtus

6. Description (executive summary of goals and objectives)* :

Small Business Energy Advantage is a program that provides direct customer services which include no-obligation energy assessments, cash incentives and zero-percent financing for qualified customers to implement upgrades in areas such as (but not limited to) lighting and refrigeration.

7. Program Year Milestones* :

Milestone		Planned (Number)
1	# projects completed	417

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$2,875,000.00
Other	
Utility companies	
Market Budget Total	\$2,875,000.00

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STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Small Business Energy Advantage

b. Leveraged funds anticipated (outside approved budget)	

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U.S. Department of Energy

STATE ENERGY PROGRAM (SEP)

NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Energy Opportunities-Commercial and Industrial

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input checked="" type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input checked="" type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input checked="" type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input checked="" type="checkbox"/> Industrial processing | <input checked="" type="checkbox"/> Traffic signals |
| <input checked="" type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input checked="" type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input checked="" type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input checked="" type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input checked="" type="checkbox"/> Manufacturing | <input checked="" type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 572,920,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

The Energy Opportunities (EO) program helps businesses maximize electric and natural gas savings including retrofits to lighting, motors and controls and HVAC equipment. The objective of this program is to improve the energy efficiency of a customer's existing facility by capturing retrofit opportunities. These opportunities are realized by: 1) exchanging functioning yet inefficient equipment with high-efficiency equipment; 2) retrofitting existing equipment with energy-saving devices, modifications, or controls; and 3) improving a facility's performance.

7. Program Year Milestones* :

Milestone		Planned (Number)
1	Projects completed	153

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$3,375,000.00
Other	
Utility companies	
Market Budget Total	\$3,375,000.00

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(Grant Number: TO12569)

Market Title: Energy Opportunities-Commercial and Industrial

b. Leveraged funds anticipated (outside approved budget)	

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OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: State Building Energy Improvements

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input checked="" type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| ** | <input type="checkbox"/> Heavy vehicles and trucks | <input checked="" type="checkbox"/> Solar power |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydropower | <input checked="" type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Commercial buildings | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input checked="" type="checkbox"/> Demand reduction | <input checked="" type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Manufacturing | <input checked="" type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy building codes | <input checked="" type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Policy and energy legislation | |
| <input type="checkbox"/> ENERGY STAR | | |

5. Estimated Annual Energy Savings : 300,000,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

The State of Connecticut will implement a variety of projects within state-owned buildings to reduce energy consumption and obtain efficiencies for energy that is consumed. The State Department of Public Works will be responsible for identification and implementation of specific projects. Under this program activity:

- Existing lighting systems will be replaced with more energy efficient systems and lighting controls will be installed.
- Lower power variable frequency drive motors will replace existing motors.
- Energy management systems (EMS) will be installed or upgraded.
- Through building energy audits and commissioning/re-commissioning, improvements to heating, ventilation, and air conditioning (HVAC) systems will be made, such as economizers, dampers, and EMS controls.
- Boiler and burner replacements and upgrades will be made.
- Other energy measures may be considered on a case-by-case basis.

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(Grant Number: TO12569)

Market Title: State Building Energy Improvements

Program Year Milestones* :

Milestone		Planned (Number)
1	Number of State Facilities receiving Energy Improvements	5

Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$5,000,000.00
Other	
Utility companies	
Market Budget Total	\$5,000,000.00
b. Leveraged funds anticipated (outside approved budget)	

*Please use additional pages if more space is needed.

**Mandatory requirement

DOE F 540:1
(08/05)

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STATE ENERGY PROGRAM (SEP)
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OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Building Code Training & Compliance

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input checked="" type="checkbox"/> Residential buildings |
| <input checked="" type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input checked="" type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input checked="" type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input checked="" type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 152,000,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

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U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
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OMB: Control No. 1910-5126
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(Grant Number: TO12569)

Market Title: Building Code Training & Compliance

The State Building Inspector and the Codes and Standards Committee will continue the process of adopting the 2009 International Energy Conservation Code (IECC) Code including adoption of the ANSI/ASHRAE/IESNA Standard 90.1-2007.

The update of the Energy Code portion of the State Building Code to the 2009 IECC including and Connecticut Amendments will meet or exceed the 2009 IECC and ANSI/ASHRAE/IESNA Standard 90.1-2007 code requirements for residential buildings and commercial buildings

The Office of Education and Data Management (OEDM) will be responsible for the development, coordination, sponsorship and presentation of Energy Code training programs throughout the state for the new updated to the Energy Portion of the State Building Code.

The Connecticut Building Code Enforcement Pre-Licensure Training Program shall be revised to incorporate requirements from the American Recovery Act and Reinvestment Act of 2009 along with the updated 2009 IECC and ASHRAE 90.1-2007.

The Connecticut Building Code Enforcement Licensure Examination and Test Banks will be updated with questions associated with the 2009 IECC and ASHRAE 90.1-2007.

OEDM will continue to work with, establish partnerships with organizations such as the Connecticut Institute for Sustainable Energy, Northeast Energy Efficiency Partnerships, Inc., AIA Connecticut, professional construction associations and building trade associations/unions, to promote the knowledge and understanding associated with the implementation of and compliance with the Energy Code portion of the State Building Code.

OEDM will work with the local building code enforcement officials, potential partners, and other Connecticut State Agencies in developing an annual measurement system that will incorporate the evaluation of the rate of compliance with the Energy Code portion of the State Building Code. Implementation of this IECC 2009 code is anticipated for late 2011.

Mandatory Measure-

Through the adoption and implement of the updates to the Energy Code Portion of the State Building Code mandatory thermal efficiency standards for new and renovated buildings will continue in the State of Connecticut.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	State Building Inspector and the Codes and Standards Committee meetings to develop and adopt the updated Energy Codes	8
2	Implementation of the updated Energy Code Portion of the State Building Code including 2009 IECC in late 2011.	1
3	Distribution of a baseline needs assessment and energy code compliance survey to the 169 local Connecticut building official offices including the development of survey and analysis of results.	169
4	Update OEDM Energy Code Training Programs using new energy conservation code and information from the baseline needs assessment.	1
5	Energy Code related training programs offered to building officials, design professionals, construction trade professionals and the construction industry.	24
6	Evaluation of updated energy code training programs and modification as needed.	24
7	Distribution of a year end needs assessment and energy code compliance survey to the 169 local Connecticut building official offices including the development of survey and analysis of results	169
8	Development of an annual measurement system that will incorporate the evaluation of the rate of compliance with the Energy Code portion of the State Building Code.	1

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$300,000.00
Other	
Utility companies	
Market Budget Total	\$300,000.00
b. Leveraged funds anticipated (outside approved budget)	

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 (Grant Number: TO12569)

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

Market Title: Clean Cities

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input checked="" type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input checked="" type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input checked="" type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input checked="" type="checkbox"/> Clean Cities | <input checked="" type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Lighting ** | <input checked="" type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)* :

The Clean Cities program focuses on the utilization of petroleum reduction technologies in the transportation sector. This includes alternatively fueled vehicles and infrastructure, idling reduction technologies, and education and outreach on these technologies. There are four designated Clean Cities Coalitions in Connecticut: Greater New Haven, Clean Cities of Southwestern Connecticut, Norwich Clean Cities, and Capital Clean Cities.

The SEP-ARRA Recovery funding is intended to provide support to all four coalitions to enable them to continue to facilitate the growth of alternate fuels and petroleum reducing technologies in Connecticut.

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	# of alternatively fueled vehicles placed in service	50
2	# of fueling infrastructure additions/improvements	3

DOE F 540.1
08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Clean Cities

3. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$200,000.00
Other	
Utility companies	
Market Budget Total	\$200,000.00
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1
(08/05)

U.S. Department of Energy

STATE ENERGY PROGRAM (SEP)

NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Building Operator Training

1. Market (choose one):

- | | |
|--------------------------------------------------------------|---------------------------------------------------------------|
| <input checked="" type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input checked="" type="checkbox"/> Federal, state and local facilities | <input checked="" type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input checked="" type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input checked="" type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input checked="" type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input checked="" type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input checked="" type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input checked="" type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 49,400,000.00 MBtus

6. Description (executive summary of goals and objectives)* :

The BOC (Building Operators Certification) course provides training to building facilities management personnel to help them improve operations, and includes strong energy and water savings components.

BOC Training consists of Level 1 (eight full-day sessions) and Level 2 (seven full-day sessions). We will offer both Level 1 and Level 2 (The number of each TBD).

Over the next 3 years a total of 7 training courses will be provided, with 30 participants for each training session, or around 240 students. It would be made available to State and Municipal Employees.

7. Program Year Milestones* :

Milestone		Planned (Number)
1	# of BOC Courses	7

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: Building Operator Training

3. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$250,000.00
Other	
Utility companies	
Market Budget Total	\$250,000.00
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1
(08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET
 (Grant Number: TO12569)

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

Market Title: ARRA Administration

1. Market (choose one):

- | | |
|--------------------------------------------------------------|--------------------------------------------------------------------------|
| <input type="checkbox"/> Buildings | <input type="checkbox"/> Industry |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input checked="" type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education | <input type="checkbox"/> Transportation |

2. State: CT

3. Program Year: 2009

Date Start: 04/01/2009 Date End: 03/31/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

- | | | |
|------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Federal Energy Management Program | <input type="checkbox"/> Procurement of efficient products ** |
| <input type="checkbox"/> Alternative Fuels | <input type="checkbox"/> Federal, state and local facilities | <input checked="" type="checkbox"/> Public information |
| <input type="checkbox"/> Appliance efficiency and standards | <input type="checkbox"/> Financing energy programs | <input type="checkbox"/> Rating and labeling |
| <input type="checkbox"/> Bioenergy and biobased products | <input type="checkbox"/> Fuel cells | <input type="checkbox"/> Rebuild America |
| <input type="checkbox"/> Biomass Power | <input type="checkbox"/> General energy efficiency for industry | <input checked="" type="checkbox"/> Residential buildings |
| <input type="checkbox"/> Building America | <input type="checkbox"/> Geothermal | <input type="checkbox"/> Right turn on red ** |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing ** | <input type="checkbox"/> Green power programs | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Clean Cities | <input type="checkbox"/> Heavy vehicles and trucks | <input type="checkbox"/> Solar power |
| <input type="checkbox"/> Climate change planning | <input type="checkbox"/> Home energy ratings | <input type="checkbox"/> State energy strategic plans |
| <input type="checkbox"/> Combined heat and power | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Telecommuting |
| <input checked="" type="checkbox"/> Commercial buildings | <input type="checkbox"/> Hydropower | <input type="checkbox"/> Thermal ** |
| <input type="checkbox"/> Curriculum development | <input type="checkbox"/> Industrial processing | <input type="checkbox"/> Traffic signals |
| <input type="checkbox"/> Demand reduction | <input type="checkbox"/> Industries of the future | <input type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation | <input type="checkbox"/> Lighting ** | <input type="checkbox"/> Transportation alternatives |
| <input type="checkbox"/> Energy and environment | <input type="checkbox"/> Low-income Weatherization | <input type="checkbox"/> Waste management and recycling |
| <input type="checkbox"/> Energy building codes | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Water systems |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems | <input type="checkbox"/> Wind energy |
| <input type="checkbox"/> Energy emergency planning | <input type="checkbox"/> Performance contracting | |
| <input type="checkbox"/> ENERGY STAR | <input type="checkbox"/> Policy and energy legislation | |

5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)* :

OPM staff will oversee sub-recipient agreements and ensure timely reporting as required under ARRA. This may include field visits to sub-recipients to ensure compliance with ARRA requirements. Staff will collect and compile reports for submittal to the Dept. of Energy

7. Program Year Milestones* :

	Milestone	Planned (Number)
1	Quarterly Progress reports	12
2	Field inspections	24

8. Program Year Funds by Source* :

a. SEP Grant (all funds in the approved budget)	
DOE	\$292,000.00
Other	
Utility companies	
Market Budget Total	\$292,000.00

DOE F 540.1
08/05)

U.S. Department of Energy
STATE ENERGY PROGRAM (SEP)
NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126
Expiration Date: 06/30/08

(Grant Number: TO12569)

Market Title: ARRA Administration

b. Leveraged funds anticipated (outside approved budget)	

Recovery Ramp-Up

Introduction

The Connecticut Office of Policy and Management (OPM) is well positioned to quickly and efficiently expand our energy activities. OPM has been involved in administering sub-grants and contracts through the State Energy Program (SEP) and SEP Special Projects for a number of years. While our primary focus has been on energy efficiency and renewable energy programs, our mission over the past several years has been to work with a number of other state agencies and private entities to integrate climate change activities into our SEP program. With these monies, we will broaden our focus to emphasize those activities that will create and retain jobs. We have discussed these goals with our sub-recipients. As soon as our Notice of Financial Assistance Award is issued, we are ready to expedite contractual arrangements with our sub-recipients to get the funds flowing quickly.

We are committed to the goal of using existing program infrastructure to be able to deliver programs quickly and efficiently. As such, we will supplement existing programs and in some cases, create new programs with entities that already are delivering energy efficiency and renewable energy services.

Job Creation, Energy Saved, and Greenhouse Gas Reductions

A recently completed study on energy efficiency programs indicated that more than 14 direct jobs and 22 indirect jobs are created per \$1 million spent on energy efficiency programs in CT. The figures in the following table are based on this information and estimates of energy savings or clean energy generated.

Program	Estimate of Energy Saved/Created- MMBTUs	Jobs created-Direct/Indirect	Greenhouse Gas Reductions-Tons
Building Code Training and Compliance	152,000	5/7	1216
Building Operator Training	49,400	3/5	375
Clean Cities	0	2/4	
Energy Opportunities-Commercial and Industrial	572,920	47/76	4380
Fuel Cell Program	169,232	112/176	1500
Geothermal Incentive Program	65,018	70/110	494
Home Energy Solutions	334,900	87/137	2510
Small Business Energy Advantage	350,412	40/64	3140
Solar PV Program	16,530	42/66	132
Solar Thermal	37,783	56/88	306
State Building Energy Improvements	300,000	70/110	2370
TOTALS	2,048,195	534/843	16,423

Funding levels and commitment to expand and not to supplant

The Governor, the Connecticut Office of Policy and Management, and its sub-recipients all understand that funds are only to be used to supplement, and not to supplant, existing program funds. As such, we have prepared the following table as directed in the grant solicitation. Please pay particular attention to the Notes.

Funding Levels

Program	Funding Level 2008	Planned Funding 2009*	Planned Funding 2010*	ARRA Allocation
Building Code Training and Compliance	0	0	0	300,000
Building Operator Training	90,562	31,100	0	250,000
Clean Cities	0	0	0	200,000
Energy Opportunities-Commercial and Industrial	34,155,231	14,353,278	18,455,639	3,375,000
Fuel Cell Program	2,190,000	3,000,000	3,000,000	8,000,000
Geothermal Incentive Program	0	0	0	5,000,000
Home Energy Solutions	9,292,702	14,233,713	19,719,569	6,250,000
Small Business Energy Advantage	13,535,532	10,560,524	14,562,236	2,875,000
Solar PV Program	23,513,000	7,732,500	7,732,500	3,000,000
Solar Thermal	0	0	0	4,000,000
State Building Energy Improvements	0	0	0	5,000,000

*Does not include ARRA dollars

Notes:

1. Building Operator Training in 2008 was the final year of a DOE competitive grant (NT42984). We planned to maintain one course in 2009 through our SEP Base Grant, which is currently in progress. Prior to ARRA funding, no additional courses were planned.
2. Solar PV Program-The Clean Energy Fund had accumulated funding from previous years. All accumulated funds were expended in 2008. For this reason, the planned funding dropped dramatically.
3. Energy Opportunities-Commercial and Industrial and the Small Business Energy Advantage: Because both programs were oversubscribed in 2008, the Department of Public Utilities Control gave authorization to Connecticut Light & Power to spend funds based on anticipated receipts in 2009. As a result, 2008 funding levels are bloated while 2009 levels are lower than they ordinarily would be.

**State of Connecticut
Governor's Assurances**

- (1) The applicable State regulatory authority will seek to implement, in appropriate proceedings for each electric and gas utility, under its rate-making authority a general policy that ensures that utility financial incentives are aligned with helping their customers use energy more efficiently and that provide timely cost recovery and a timely earnings opportunity for utilities associated with cost-effective measurable and verifiable efficiency savings, in a way that sustains or enhances utility customers' incentives to use energy more efficiently.**

In the state of Connecticut, the Connecticut Department of Public Utility Control (DPUC) is the state regulator that has ratemaking authority for state utilities. In its ratemaking function for electric and gas utilities it is pursuing and will continue to pursue a general policy that ensures that utility incentives are aligned with helping their customers use energy more efficiently and provide timely cost recovery and timely earnings opportunities for utilities associated with cost effective measurable and verifiable energy efficient savings in a way that sustains and enhances utility customers' incentives to use energy more efficiently.

In 2007, the Connecticut General Assembly adopted, Public Act 07-242, *An Act Concerning Electricity and Energy Efficiency* (Act). In Section 107 of the Act, the DPUC is required to implement decoupling of distribution revenues from the volume of electricity sales. The Act further requires the Department to achieve decoupling through one of the following means, either singly or in combination: 1) a mechanism that adjusts actual distribution revenues to allowed distribution revenues; 2) rate design changes that increase the amount of revenue recovered through fixed distribution charges; or 3) a sales adjustment clause and/or rate design changes that increase the amount of revenue recovered through fixed distribution charges. On February 4, 2009 the DPUC issued its first rate decision since the adoption of the Act, ordering 'decoupling' for United Illuminating, one of Connecticut's two non-municipal electric distribution companies. It will be the general policy of the DPUC to follow the Act in any future electric rate cases brought before the DPUC.

It has also been the long-standing policy of the Connecticut DPUC to engage in a similar review for regulated gas utilities. Connecticut has for many years issued rate decisions that provided gas utilities financial incentives aligned with helping customers use energy more efficiently. At present, rate cases with two of our states' three gas utilities are pending before the DPUC and 'decoupling' has been an integral part of the hearings held on the rate petitions of those companies. The decisions in those two cases will be issued by the end of the summer of 2009. It will be the general policy of the DPUC to continue to pursue and enhance these actions in future gas rate cases brought before the DPUC.

- (2) The State, or the applicable units of local government that have authority to adopt building codes, will implement the following:**

(A) A residential building energy code (or codes) that meets or exceeds the most recent International Energy Conservation Code, or achieves equivalent or greater energy savings.

(B) A commercial building energy code (or codes) throughout the State that meets or exceeds the ANSI/ASHRAE/IESNA Standard 90.1-2007, or achieves equivalent or greater energy savings.

(C) A plan to achieve 90 percent compliance with the above energy codes within eight years. This plan will include active training and enforcement programs and annual measurement of the rate of compliance.

Under Connecticut General Statutes Section 29-252, the State Building Inspector and the Codes and Standards Committee shall, jointly, with the approval of the Commissioner of Public Safety, adopt and administer the State Building Code. Under C.G.S Section 29-256a, the building code shall require that buildings and building elements be designed to provide optimum cost effective energy efficiency over the life of the building

The State of Connecticut, in compliance with this statute, has been consistently following the procedure of adopting a State Building Code with regularity since 1971.

The Division of Fire, Emergency and Building Services within the State of Connecticut, Department of Public Safety, is divided into four offices including the Office of State Building Inspector, the Office of State Fire Marshal, the Office of Statewide Emergency Telecommunications and the Office of Education and Data Management. The Office of State Building Inspector and the Office of Education and Data Management will lead the division in the implementation of the State of Connecticut's Energy Code assurance requirements.

(A) A building energy code (or codes) for residential buildings that meets or exceeds the most recently published International Energy Conservation Code or achieves equivalent or greater energy savings.

In the fall of 2008 the State Building Inspector and the Codes and Standards Committee began the process of adopting the 2009 International Energy Conservation Code (IECC) Code including adoption of the ANSI/ASHRAE/IESNA Standard 90.1-2007. Implementation of this IECC 2009 code is anticipated for late 2011. This planned implementation will update the Energy Code portion of the State Building Code from the 2006 IECC, including the ANSI/ASHRAE/IESNA Standard 90.1-2004 to the 2009 IECC. Additional Connecticut Amendments will be incorporated which will meet or exceed the 2009 IECC code requirements for residential buildings.

The process for adoption of the latest version of the International Energy Conservation Code may take between twelve and eighteen months. This adoption process includes multiple regulatory state agency reviews and approvals prior to implementation.

(B) A building energy code (or codes) for commercial buildings throughout the State that meets or exceeds the ANSI/ASHRAE/IESNA Standard 90.1-2007, or achieves equivalent or greater energy savings.

The Energy Code Portion of the State Building Code will meet or exceed ANSI/ASHRAE/IESNA Standard 90.1-2007 with the adoption and implementation of the 2009 International Energy Conservation Code with Connecticut Amendments as discussed in (2) (A).

(C) A plan to achieve 90 percent compliance with the above energy codes within eight years. This plan will include active training and enforcement programs and annual measurement of the rate of compliance.

(i)

In 1998, the Office of Education and Data Management (OEDM) was established within the Division of Fire, Emergency and Building Services as part of a comprehensive plan to promote and achieve uniform state building code enforcement and compliance. This Office supports the Energy Code portion of the State Building Code throughout the State of Connecticut by providing training on a regular basis to licensed code officials/inspectors along with outreach training to the building trades and design professionals. The Office is financially supported by a dedicated "Code Education Fund" through an assessment on building permit fees incurred by Connecticut's 169 municipalities.

(ii)

Together with the Office of the State Building Inspector, in 2000 OEDM implemented a pre-licensure building code enforcement training program for new code enforcement officials within the state. This training program currently incorporates comprehensive training on the International Energy Conservation Code for residential and commercial buildings and the ANSI/ASHARE/IESNA Standard 90.1 for commercial buildings. The Building Code Enforcement Pre-Licensure Training Program shall be revised to incorporate requirements from the American Recovery Act and Reinvestment Act of 2009 along with the updated 2009 IECC and ASHRAE 90.1-2007.

(iii)

Together with the Office of the State Building Inspector, in 1999 OEDM implemented annual career development training programs for existing building code enforcement officials. These programs regularly incorporated training on the residential and commercial building construction issues of the Energy Code portion of the State Building Code. These energy code training programs shall be updated to the requirements in the 2009 International Energy Conservation Code for residential and commercial buildings and in the ANSI/ASHARE/IESNA Standard 90.1 -2007 for commercial buildings.

(iv)

OEDM will continue to work with and establish partnerships with organizations such as the Connecticut Institute for Sustainable Energy, Northeast Energy Efficiency Partnerships, Inc., AIA Connecticut, professional construction associations and building trade associations/unions, to promote the knowledge and understanding associated with the implementation of and compliance with the Energy Code portion of the State Building Code.

(v)

OEDM will work with the local building code enforcement officials, potential partners, and other Connecticut State Agencies in developing an annual measurement system that will incorporate the evaluation of the rate of compliance with the Energy Code portion of the State Building Code. This monitoring system may include but not be limited to various resources, such as an Energy Code compliance survey with municipal code officials or other systematic approach of building permit audits for energy code compliance. This system, along with any additional training needs, will be supported utilizing a small portion of ARRA funds.

(3) The State will to the extent practicable prioritize the grants toward funding energy efficiency and renewable energy programs, including—

- (A) the expansion of existing energy efficiency programs approved by the State or the appropriate regulatory authority, including energy efficiency retrofits of buildings and industrial facilities, that are funded by the State or through rates under the oversight of the applicable regulatory authority, to the extent applicable;**
- (B) the expansion of existing programs, approved by the State or the appropriate regulatory authority, to support renewable energy projects and deployment activities, including programs operated by entities which have the authority and capability to manage and distribute grants, loans, performance incentives, and other forms of financial assistance; and**
- (C) cooperation and joint activities between States to advance more efficient and effective use of this funding to support the priorities described in this section.**

(A) The State of Connecticut intends to use existing infrastructure developed for the delivery of energy efficiency programs in the state. The Connecticut Energy Efficiency Fund (CEEF), overseen by the Energy Conservation Management Board (ECMB), is funded through ratepayer funds. Actual program delivery is overseen by the electric utility companies: United Illuminating (UI) and Connecticut Light and Power (CL&P). In areas of the state served by municipal utilities, the Connecticut Municipal Electric Energy Cooperative (CMEEC) implements similar programs. The State will expand programs that are operated by these entities. For example, while UI, CL&P, and CMEEC focus primarily on electric efficiency, (and to a lesser extent, natural gas efficiency), ARRA funds will be used in part to expand the universe to address fuel oil efficiency measures. Among the suite of programs through the above-mentioned entities, we expect to focus on particular programs that address the following sectors: residential audits/measure installation, small business retrofits, and commercial/industrial retrofits.

(B) The Connecticut Clean Energy Fund (CEF) is a ratepayer-based fund focused on the use of renewable sources of energy to reduce reliance on imported energy, enhance market demand for renewable energy, and develop the renewable industry in Connecticut. The organization has several ongoing programs focused on energy production, including solar PV, fuel cells, biomass, and a small wind demonstration program. The State of Connecticut plans to utilize the CEF to expand existing activities (PV, fuel cells). Funding will also be utilized to address new sectors that have considerable demand, but have not been funded to date. These programs will be a solar

thermal program as well as a geothermal program. Both programs will target the residential and commercial sectors.

(C) Because the Department of Energy strongly encourages the use of existing infrastructure to deliver efficiency/renewable programs under this grant, and those programs are specific to Connecticut, there are limited opportunities for cooperative activities between neighboring states. However, through our Clean Cities coalitions, we have partnered with Ocean State Clean Cities (Rhode Island), and plan to continue to do so.

BUDGET INFORMATION - Non-Construction Programs

1. Program/Project Identification No. Amendment number:	TO12569 A000	2. Program/Project Title State Energy Program
3. Name and Address Connecticut Office of Policy a 450 Capital Avenue MS 52 ENR Hartford CT 06106-1379	4. Program/Project Start Date 04/01/2009	5. Completion Date 03/31/2012

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DOE	81.041	\$ 0.00		\$ 38,542,000.00		\$ 38,542,000.00
2. GRANTEE			\$ 0.00		\$ 0.00	\$ 0.00
3. OTHER			\$ 0.00		\$ 346,200.00	\$ 346,200.00
4. UTILITY			\$ 0.00		\$ 660,000.00	\$ 660,000.00
5. TOTALS		\$ 0.00	\$ 0.00	\$ 38,542,000.00	\$ 1,006,200.00	\$ 39,548,200.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) Utility Companies	(2) OTHER (ratepayer funds thru	(3) DOE	(4)	
a. Personnel	\$ 0.00	\$ 0.00	\$ 137,275.68		\$ 137,275.68
b. Fringe Benefits	\$ 0.00	\$ 0.00	\$ 74,019.06		\$ 74,019.06
c. Travel	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
d. Equipment	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
e. Supplies	\$ 0.00	\$ 0.00	\$ 7,642.39		\$ 7,642.39
f. Contractual	\$ 660,000.00	\$ 346,200.00	\$ 38,250,000.00		\$ 39,256,200.00
g. Construction	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00
h. Other	\$ 0.00	\$ 0.00	\$ 7,500.00		\$ 7,500.00
i. Total Direct Charges	\$ 660,000.00	\$ 346,200.00	\$ 38,476,437.13		\$ 39,482,637.13
j. Indirect Charges	\$ 0.00	\$ 0.00	\$ 65,562.87		\$ 65,562.87
k. Totals	\$ 660,000.00	\$ 346,200.00	\$ 38,542,000.00		\$ 39,548,200.00
7. Program Income	\$ 0.00	\$ 0.00	\$ 0.00		\$ 0.00

U.S. DEPARTMENT OF ENERGY
GOLDEN FIELD OFFICE



BUDGET EXPLANATION FOR FORMULA GRANTS

Applicant: Connecticut Office of Policy a

Budget period: 04/01/2009 - 03/31/2012

Award number: TO12569

Amendment number: A000

1. **PERSONNEL** - Prime Applicant only (all other participant costs are listed in 6 below and form DOE F 4600.4, Section B. Line 6.f. Contracts and Sub-Grants).

Positions to be supported under the proposed award and brief description of the duties of professionals:

Position	Description of Duties of Professionals
Lead Planning Analyst (5% in each of three years for a total of 15%)	Management of grants pertaining to state facility energy efficiency programs
Policy Development Coordinator (5% in each of three years for a total of 15%)	Grant management administration and oversight. Will be the lead person in administration and oversight of renewable programs and state facility efficiency programs under ARRA
Policy Development Coordinator (5% in each of three years for a total of 15%)	Grant management administration and oversight. Will be the lead person in administration and oversight of utility energy efficiency programs
Planning Specialist (20% in each of three years for a total of 60%)	Management of State Energy Program grants; will be responsible for the program management for SEP ARRA funds. Will provide management oversight for Clean Cities activities.
Purchase of Service Policy Manager (5% in each of three years for a total of 15%)	Management of grants; will provide assistance to State Energy Program Manager; will be responsible for arranging Building Operator Training.
Research Analyst (5% in each of three years for a total of 15%)	Management of grants. Will provide grant management oversight of the Department of Public Safety.
Director (5% in each of three years for a total of 15%)	Administers and oversees and manages the general operation of the staff of the Energy Unit at OPM. Works closely with the Governor's office on energy issues. Will provide oversight for all ARRA funds flowing into OPM.

Direct Personnel Compensation:

Position	Salary/Rate	Time	Direct Pay
Lead Planning Analyst (5% in each of three years for a total of 15%)	\$88,824.00	15 % FT	\$13,323.60
Policy Development Coordinator (5% in each of three years for a total of 15%)	\$114,034.00	15 % FT	\$17,105.10
Policy Development Coordinator (5% in each of three years for a total of 15%)	\$86,189.28	15 % FT	\$12,928.39
Planning Specialist (20% in each of three years for a total of 60%)	\$102,425.04	60 % FT	\$61,455.02
Purchase of Service Policy Manager (5% in each of three years for a total of 15%)	\$71,448.00	15 % FT	\$10,717.20
Research Analyst (5% in each of three years for a total of 15%)	\$13,019.76	15 % FT	\$1,952.96
Director (5% in each of three years for a total of 15%)	\$131,956.00	15 % FT	\$19,793.40
Direct Pay Total			\$137,275.67

2. **FRINGE BENEFITS**

- Are the fringe cost rates approved by a Federal Agency? If so, identify the agency and date of latest rate agreement or audit below, and include a copy of the rate agreement.
- If a above does not apply, indicate the basis for computation of rates, including the types of benefits to be provided, the rate(s) used, and the cost base for each rate. You may provide the information below or provide the calculations as an attachment.

04/16/2009

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Fringe Benefits Calculations

Position	Direct Pay	Rate	Benefits
Lead Planning Analyst (5% in each of three years for a total of 15%)	\$13,323.60	53.92 %	\$7,184.09
Policy Development Coordinator (5% in each of three years for a total of 15%)	\$17,105.10	53.92 %	\$9,223.07
Policy Development Coordinator (5% in each of three years for a total of 15%)	\$12,928.39	53.92 %	\$6,970.99
Planning Specialist (20% in each of three years for a total of 60%)	\$61,455.02	53.92 %	\$33,136.55
Purchase of Service Policy Manager (5% in each of three years for a total of 15%)	\$10,717.20	53.92 %	\$5,778.71
Research Analyst (5% in each of three years for a total of 15%)	\$1,952.96	53.92 %	\$1,053.04
Director (5% in each of three years for a total of 15%)	\$19,793.40	53.92 %	\$10,672.60
		Fringe Benefits Total	\$74,019.05

3. **TRAVEL** - Identify total foreign and domestic travel as separate items.

a. Proposed travel:

Purpose of Trip	Number of Trips	Cost Per Trip	Total
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4. **EQUIPMENT** - As defined in 10 CFR 660.202. Definitions are at http://www.access.gpo.gov/nara/cfr/waisidx_00/10cfr660.202.html

a. Basis of cost estimates (e.g., vendor quotes, prior purchases of similar or like items, etc.):

b. Equipment to be purchased and justification of need:

Equipment	Unit Cost	Number	Total Cost	Justification of Need
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5. **MATERIALS AND SUPPLIES** - As defined in 10 CFR 660.202.

a. Basis cost estimates (e.g., vendor quotes, prior purchases of like items, etc.):

b. Supplies to be purchased and justification of need:

General Category	Cost	Justification of Need
office supplies, paper, toner, file folders, etc.	\$7,642.39	basic office needs estimated over the course of three years
Materials and Supplies Total	\$7,642.39	

6. **CONTRACTS AND SUBGRANTS** - All other participant costs including subcontractor sub-grants, and consultants

For ongoing subcontractors and sub recipients described elsewhere in the application, document and item number is listed.

Name of Proposed Sub	Total Cost	Basis of Cost*
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Connecticut Clean Energy Fund (CEF) (includes \$346,200 in-kind cost share)	\$20,346,200.00	Based on costs of establishing two new programs and supplementing two existing programs
Connecticut Light and Power (includes \$522,000 in-kind cost share)	\$9,722,000.00	Based on supplementing existing programs to make programs "fuel blind"
United Illuminating (includes \$138,000 in-kind cost share)	\$2,438,000.00	Based on supplementing existing programs to make programs "fuel blind"
Connecticut Municipal Electrical Energy Cooperative	\$1,000,000.00	Based on supplementing existing programs for residential and the commercial industrial sectors
CT Department of Public Works	\$5,000,000.00	Based on a project list of over 5 million dollars
CT Department of Public Safety	\$300,000.00	Based on an estimate from the Dept. of Public Safety on the need for additional training and compliance activities
Northwest Energy Efficiency Council	\$250,000.00	Estimate based on historical experience
Greater New Haven Clean Cities	\$50,000.00	To cover ongoing activities over the grant period
Capital Clean Cities	\$50,000.00	To cover ongoing activities over the grant period
Norwich Clean Cities	\$50,000.00	To cover ongoing activities over the grant period
Clean Cities of SW Connecticut	\$50,000.00	To cover ongoing activities over the grant period
Contracts and Subgrants Total	\$39,256,200.00	

*For example, Competitive, Historical, Quote, Catalog

7. OTHER DIRECT COSTS - All direct costs not included in above categories

a. Basis for cost estimates (e.g., vendor quotes, prior purchase of similar items, etc.):

b. Other direct costs and justification of need:

General Description	Cost	Justification of Need
Room Rental	\$7,500.00	Estimate of need for Building Operator Training, based on 50 sessions at \$150/day room rental
Other Direct Costs Total	\$7,500.00	

8. INDIRECT COSTS

a. Are the indirect cost rates approved by a Federal agency? If so, identify the agency and date of latest rate agreement or audit and provide a copy of the rate agreement.
Department of Energy

b. If the above does not apply, indicate the basis for computation of rates, including the types of benefits to be provided, the rate(s) used, and the cost base for each rate. You may provide the information below or provide the calculations separately.

The name and phone number of the individual responsible for negotiating the State's indirect cost rates.

Name: MaryAnn Palmarozza

Phone Number: (860)418-6360

Indirect costs calculations:

Indirect Cost Account	Direct Total	Indirect Rate	Total Indirect
Total Salaries	\$137,275.68	47.76 %	\$65,562.86
		Indirect Costs Total	\$65,562.86

Applicant Name: Connecticut Clean Energy Fund

Award Number: DE-FOA-0000052

OMB Approval No. 0348-0044

Budget Information - Non Construction Programs

Section A - Budget Summary						
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. SEP-ARPA	81.041			\$20,000,000		\$20,000,000
2. CT Clean Energy Fund					\$346,200	\$346,200
3.						\$0
4.						\$0
5. Totals		\$0	\$0	\$20,000,000	\$346,200	\$20,346,200
Section B - Budget Categories						
Object Class Categories		Grant Program, Function or Activity				Total (5)
		(1) DOE	(2) CT Clean Energy Fund	(3)	(4)	
a. Personnel		\$520,000	\$140,000			\$660,000
b. Fringe Benefits		\$288,000	\$77,000			\$365,000
c. Travel		\$40,000	\$4,000			\$44,000
d. Equipment						\$0
e. Supplies						\$0
f. Contractual		\$19,058,400	\$100,000			\$19,158,400
g. Construction						\$0
h. Other						\$0
i. Total Direct Charges (sum of 6a-6h)		\$19,906,400	\$321,000	\$0	\$0	\$20,227,400
j. Indirect Charges		\$93,600	\$25,200			\$118,800
k. Totals (sum of 6i-6j)		\$20,000,000	\$346,200	\$0	\$0	\$20,346,200
7. Program Income						\$0

Section C - Non-Federal Resources					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) Totals	
8. Connecticut Clean Energy Fund (in-kind)	\$346,200			\$346,200	
9.				\$0	
10.				\$0	
11.				\$0	
12. Total (sum of lines 8 - 11)	\$346,200	\$0	\$0	\$346,200	

Section D - Forecasted Cash Needs					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th quarter
13. Federal	\$5,000,000	\$500,000	\$800,000	\$1,700,000	\$2,000,000
14. Non-Federal	\$100,000	\$15,000	\$20,000	\$30,000	\$35,000
15. Total (sum of lines 13 and 14)	\$5,100,000	\$515,000	\$820,000	\$1,730,000	\$2,035,000

Section E - Budget Estimates of Federal Funds Needed for Balance of the Project					
(a) Grant Program	Future Funding Periods (Years)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16. SEP-ARRA	\$8,500,000	\$6,500,000			
17. CT Clean Energy Fund	\$146,200	\$100,000			
18.					
19.					
20. Total (sum of lines 16-19)	\$8,646,200	\$6,600,000	\$0	\$0	\$0

Section F - Other Budget Information		
21. Direct Charges	55%	
SEE remarks below (box 23)		
22. Indirect Charges	18%	
Indirect consists of Rent Utilities Insurance (10.7%); Telephone, Computer Operations, other office expenses 7.3%		
23. Remarks		
Fringe is 55% made up of retirement (33.5%); Payroll Tax and UC (8.65%); Medical Prem (12.5%); and Life Ins & ADD (0.35%)		
In-kind contribution consists of additional administrative costs for expansion of existing programs.		



STATE OF CONNECTICUT
Office of Policy and Management

Davis Bacon Act Requirements

The Office of Policy and Management will incorporate into all sub-grant awards made under this application language that will ensure compliance as may be necessary with Davis Bacon Act requirements.

To the extent necessary, additional reporting requirements will be incorporated to document compliance with applicable federal law.

Raymond L. Wilson
Director – Energy Research & Policy Development
4/23/2009

Testimony – Office of Policy and Management

American Reinvestment and Recovery Act, Energy Efficiency and Conservation Block Grant

Senator Harp, Representative Geragosian, Senator Fonfara, Representative Nardello, members of the Appropriations and Energy and Technology Committees, my name is Robert L. Genuario, Secretary of the Office of Policy and Management. I am submitting this testimony in support of the American Reinvestment and Recovery Act, Energy Efficiency and Conservation Block Grant plan that Governor Rell submitted to you April 23, 2009, pursuant to Connecticut General Statute 4-28b.

The American Recovery and Reinvestment Act of 2009 appropriates funding for the U.S. Department of Energy (DOE) to award formula-based grants to states under the Energy Efficiency and Conservation Block Grant program (EECBG). The purpose of the EECBG as articulated by DOE is to assist eligible entities in creating and implementing strategies to:

- Reduce fossil fuel emissions in a manner that is environmentally sustainable and, to the maximum extent practicable, maximize benefits for local and regional communities;
- Reduce the total energy use of the eligible entities; and
- Improve energy efficiency in the building sector, the transportation sector, and other appropriate sectors.

In addition, DOE has developed the following core principles to guide entities during the program and project planning process:

- Prioritize energy efficiency and conservation first as the cheapest, cleanest and fastest ways to meet energy demand.
- To maximize benefits over the longest possible terms, entities should look for ways to link their energy efficiency efforts to long-term priorities (especially community economic development, community stabilization and poverty reduction efforts).
- Invest funds in programs and projects that create and/or retain jobs and stimulate the economy while meeting long term energy goals.
- Target programs and projects that will provide substantial, sustainable and measurable energy savings, job creation and economic stimulus effects.
- Give priority to programs and projects that leverage funds with other federal programs targeting community development through the Recovery Act such as the Community development Block Grant program, HOME and job training programs.
- To the extent possible, develop programs and strategies that will continue beyond the funding period.
- Ensure oversight, transparency, and accountability for all program activities.

- Enact policies that transform markets, increase investments, and support program goals.
- Develop comprehensive plans that benchmark current performance and set aggressive goals.

The DOE has also listed a number of desired outcomes from successful implementation of the EECBG Program. These include:

- Increased energy efficiency, reduced energy consumption and reduced energy costs through efficiency improvements in the building, transportation and other appropriate sectors;
- New jobs and increased productivity to spur economic growth and community development;
- Accelerated deployment of market-ready distributed renewable energy technologies, including wind, solar, geothermal hydropower, biomass and hydrogen technologies;
- Improved air quality and related environmental and health indicators associated with the reduction of fossil fuel emissions;
- Improved coordination of energy-related policies and programs across jurisdictional levels of governance and with other local and community level programs in order to maximize the impact of this program on long-term local priorities;
- Increased security, resilience, and reliability of energy generation and transmission infrastructure;
- Leveraging of the resources of federal, state and local governments, utilities and utility regulators, private sector and non-profit organizations to maximize the resulting energy, economic and environmental benefits; and
- Widespread use of innovative financial mechanisms that transform markets.

The State of Connecticut's energy efficiency and conservation strategy is articulated and driven by policies as articulated in Governor M. Jodi Rell's *Connecticut's Energy Vision Plan*, Connecticut General Statutes Section 16a-35k, the *Connecticut Climate Change Action Plan 2005*, and *Connecticut Public Act 08-98*. Under this policy framework, Connecticut has established objectives, goals and strategies for energy efficiency, energy conservation, renewable energy technologies and green house gas reduction that include:

- Developing and utilizing renewable energy sources to the maximum extent practicable
- Diversifying Connecticut's energy supply mix
- Assisting citizens and businesses to reduce energy consumption and cost
- A 20% reduction in electric-peak grid consumption by 2020
- A 20% reduction in fossil fuel consumption by 2020
- By 2020 commercial transportation fuels to include a mixture of 20% alternative fuels

- By 2020 residential and commercial heating oil to include a mixture of 20% alternative fuels
- By 2020 a 10% reduction in GHG emissions as compared to 1990 levels
- By 2050 an 80% reduction in GHG emissions as compared to 2001 levels

The goals and objectives articulated in Connecticut's energy policy framework are both consistent with and support ARRA EECBG Program purposes and desired outcomes.

The proposed plan for program implementation under the ARRA EECBG is to expeditiously allocate funding to the 143 municipalities not eligible for direct grants with sub-grants to be used to implement programs that support and enhance the goals and objectives under the federal requirements and Connecticut's established energy policy framework.

Under the proposed ARRA EECBG plan there are two programs, the *Municipal Energy Efficiency and Conservation Program*, and the *Supplemental Regional Bonus Pool program*. Under the Municipal Energy efficiency and Conservation Program Ninety percent of Connecticut's \$9,593,500 energy efficiency and conservation block grant, or \$8,634,150, will be used to provide sub-grants to the 143 units of local government that are not eligible for direct formula grants. Grants made available to each unit of local government will be comprised of a \$25,000 base amount plus an additional amount based on municipal population. Under the Supplemental Regional Bonus Pool Program ten percent of Connecticut's \$9,593,500 energy efficiency and conservation block grant, or \$959,350 will be used to provide competitive sub-grants to towns that partner with other towns to implement projects that will be of a regional benefit. Under the regional Bonus Pool priority will be given to applications that are designed to augment projects that have been approved under the Municipal Energy Efficiency and Conservation Program as opposed to stand alone projects under this sub-grant.

My office has developed and shared preliminary guidelines with those municipalities that are eligible under this program. While we want to move this funding as quickly as possible to eligible municipalities, a process needs to be put in place to ensure the funds will be used in adherence to federally approved activities and that sub-grantees understand and are prepared to meet stringent reporting requirements. Therefore, we expect to issue final guidelines and application instructions by late July, with a filing deadline of mid-September. We are planning for sub-grant awards to be approved by mid-November and fully executed by mid-December, 2009. Funding to all sub-grantee towns under this program will be expected to be expended or fully committed within two years of sub-grant execution.

This plan is based on the belief that each of the Connecticut municipalities eligible to receive a portion of the EECBG ARRA funding is best suited to utilize and leverage this funding towards ongoing sustained benefits beyond the EECBG funding period. Each municipality will have its own unique municipal budget situation driving its energy efficiency and conservation needs and this approach will enable them to develop new and innovative solutions to address these needs at the local level. By providing towns with

May 4, 2009

the required assistance and oversight and allowing them the flexibility to develop energy and emission reduction activities the potential for achieving successful sustained outcomes is maximized. This will serve to stimulate various energy/business sectors, strengthen existing markets, establish new markets and create jobs at the local and regional level.

I remind the committees that the deadline to submit this plan to the U.S. Department of Energy is 8:00 pm on May 26, 2009.

I thank the committees for this opportunity to testify before you.

Testimony – Office of Policy and Management

American Reinvestment and Recovery Act, State Energy Program

Pursuant to Section 1 of Public Act 09-3

Senator Harp, Representative Geragosian, Senator Fonfara, Representative Nardello, members of the Appropriations and Energy and Technology Committees, my name is Robert L. Genuario, Secretary of the Office of Policy and Management. I am submitting this testimony pursuant to Section 1 of Public Act 09-3, and in support of the American Reinvestment and Recovery Act, State Energy Program plan that I submitted to you on behalf of Governor Rell on April 23, 2009.

The State Energy Program (SEP) was developed 30 years ago to support states in the implementation of programs encouraging energy efficiency and renewable technologies through market transformation initiatives. Over the years, funding has varied, but recent yearly allocations for CT have been in the \$380,000-\$650,000 range. This annual allocation has helped maintain an energy office in the state that would not otherwise exist. These funds require a minimum 20% match by the State. The US Department of Energy (DOE) has developed four broad goals for SEP funds to meet:

- Increase efficiency and reduce energy costs for consumers, businesses and government;
- Reduce reliance on imported energy;
- Improve the reliability of electricity and fuel supply and delivery of energy services; and
- Reduce the impact of energy production and use on the environment.

In addition, the Department of Energy set as a goal that states shall reduce their energy consumption 25% from 1990 levels by 2012.

SEP is designed to help state energy offices establish and maintain *programs* depending upon specific state needs. It is not designed to fund *specific projects*.

SEP-American Recovery and Reinvestment Act (ARRA) funds, in addition to meeting the existing SEP program goals and requirements, are specifically intended to create and retain jobs. The funds also carry energy saving requirements (10 Million BTUs saved/\$1,000 spent, in aggregate) and certain other conditions which Governor Rell has agreed to in order for Connecticut to be eligible for receipt of SEP-ARRA funding (see attached letter from Governor Rell to Secretary Chu, U.S. DOE, dated March 23, 2009). These conditions include:

1. A commitment that the applicable state regulatory authority seek to implement a general policy that decouples the distribution of revenues from the volume of

electricity and natural gas sales, ensuring that utility financial incentives are aligned with helping their customers use energy more efficiently;

2. A commitment to implement updated building energy code for both the residential and commercial sectors, and a plan to achieve 90% compliance within eight years; and
3. That the State will to the extent practicable prioritize the grants toward funding the expansion of existing energy efficiency and renewable energy programs, utilizing already existing entities or mechanisms with the authority and capability to distribute state funds or funds generated through rates, and in cooperation with other states.

In addition to the federal guidelines for use of ARRA funds, the State of Connecticut has also developed an extensive policy framework with regard to energy use. This framework is articulated by policies set out in Governor Rell's *Connecticut's Energy Vision Plan*, Connecticut General Statutes Section 16a-35k, the *Connecticut Climate Change Action Plan 2005*, and *Connecticut Public Act 08-98*. Under this policy framework, Connecticut has established objectives, goals and strategies for energy efficiency, energy conservation, renewable energy technologies and green house gas reduction that include:

- Developing and utilizing renewable energy sources to the maximum extent practicable
- Diversifying Connecticut's energy supply mix
- Assisting citizens and businesses to reduce energy consumption and cost
- A 20% reduction in electric-peak grid consumption by 2020
- A 20% reduction in fossil fuel consumption by 2020
- By 2020 commercial transportation fuels to include a mixture of 20% alternative fuels
- By 2020 residential and commercial heating oil to include a mixture of 20% alternative fuels
- By 2020 a 10% reduction in GHG emissions as compared to 1990 levels
- By 2050 an 80% reduction in GHG emissions as compared to 2001 levels

In developing the priorities for use of ARRA funds, consideration was given to the above state and federal goals and objectives and those of a practical nature or required by DOE. This includes the requirement to utilize existing mechanisms to deliver programs, other administrative considerations, including the extensive reporting requirements and tight deadlines which necessitate minimizing, to the extent possible, the number of contracts or grants to be negotiated, total energy savings, job creation, and the speed at which the programs can be up-and-running.

As such we have developed a comprehensive energy plan that uses the \$38.5 million in federal stimulus funds to expand fuel cell initiatives, improve the energy efficiency of state buildings and provide incentives to homeowners and businesses for alternative energy and efficiency technologies to reduce energy use, costs and reduce green house gas emissions. The plan includes the following allocation of funding:

\$20.0 Million will be used for Renewable Energy Programs.

The Connecticut Clean Energy Fund will serve as a sub-grantee with responsibility for overseeing four distinct renewable energy incentive programs under the ARRA SEP. These include two new program areas, geothermal and solar thermal, as well as funding fuel cells and photovoltaic technology, two programs that CEF presently administers.

- \$8 million will be dedicated to expanding the Clean Energy Fund's current fuel cell initiatives with a goal of completing 14 more projects. Connecticut is a leader in fuel cell technology and the development and manufacture of fuel cells. This presents an opportunity to ensure that Connecticut's position as the leader in fuel cell technology will continue and that demand for this technology will continue to create skilled jobs within the state.
- \$5 million will be used for a new program that will offer rebates for residential and commercial geothermal systems with a goal of 600 installations. Geothermal heating and cooling technology represents a burgeoning market in Connecticut. Highly efficient geothermal technology is perhaps the oldest and most proven of renewable technologies that are currently commercially available in Connecticut. This program will help to reduce Connecticut's dependence on fossil fuel energy sources, serve to further develop in-state geothermal design and installation expertise, and retain and create jobs.
- \$4 million will be used for a new program that will offer rebates for residential and commercial solar thermal hot water systems with a goal of 1,000 installations. This is a renewable energy sector that is underdeveloped in Connecticut, but is very efficient and has the potential for growth. We believe this program will help to drive the development and use of the most efficient solar thermal technologies that are available and compatible with Connecticut's climate and sunshine characteristics.
- \$3 million will be dedicated to expand the Clean Energy Fund's solar photovoltaic programs for homes and businesses with a goal of 300 more projects. This is perhaps the most well known and visible of the renewable technologies in Connecticut and demand for resources under the existing CEF program is very high. Dedicating resources to this program makes sense in terms of continuing support to this sector as well as satisfying the federal directive to utilize funding to support existing programs.

\$12.46 Million will be used for Efficiency and Conservation Programs.

These funds will be used to support and enhance three existing rate payer funded efficiency and conservation programs as administered by Connecticut Light and Power (CL&P), United Illuminating (UI) and the Connecticut Municipal Electric Energy Cooperative (CMEEC). The package of efficiency and conservation programs funded will provide residential, small commercial and large commercial customers enhanced

support for efficiency and conservation activities. These programs directly benefit the electric consumer by helping them reduce costs as well as serving to reduce base and peak demand on Connecticut's electric grid and enhance economic development opportunities in this energy sector.

- \$6.25 million will be used for private and municipal utilities to expand programs that provide ratepayers with energy audits and low cost efficiency technologies. These audit programs provide residential customers with the opportunity to garner assistance identifying and addressing low cost efficiency opportunities that result in significant cost and usage savings.
- \$2.86 million will be dedicated to CL&P and UI to expand conservation and efficiency programs for small businesses. This program gives small businesses the opportunity to receive a free energy assessment and receive financial incentives to offset the cost of energy efficiency retrofits for lighting and lighting controls, HVAC controls and refrigeration. These programs not only serve to support the energy sector but also assist small business in cutting costs, and meeting tighter margins during these difficult economic times.
- \$3.35 million will be used by CL&P, UI and CMEEC to expand conservation and efficiency programs for large commercial customers. This program is similar to the small business program however, for large industrial entities it will assess energy savings technologies for production processes.

\$5.25 Million will be used for State Facilities Efficiency, Conservation and or Renewable Energy Projects.

- \$5 million will be dedicated to energy efficiency improvements in state buildings. This program will be administered by the Department of Public Works and will include a number of projects as determined most efficient by DPW. As required under the federal guidelines, the aggregate of these funds will produce an average savings of 10 million Btu per \$1,000 of expenditure, or 10 million Btu of renewable energy produced per \$1,000 of expenditure.
- \$250,000 will be used for training and certification of building operators and inspectors to comply with new building code energy components. This funding will finance seven to eight classes and train 210 building operators. This program is open to both state and municipal employees. A 2005 study indicated that this training saves .35 kWh of electricity use per square foot of building space, 400Btu of heating oil per square foot of building space and 340 Btu of natural gas per square foot of building space.

\$492,000 will be used for Administrative Purposes in Support of Energy Efficiency, Conservation and Renewable Programs.

- \$200,000 for will be used for administrative support for four Connecticut Clean Cities coalition areas (Greater New Haven, Southwestern Connecticut, Norwich

and Capitol Clean Cities Coalition). Clean Cities is a national program with the mission to advance the energy, economic, and environmental security of the United States by supporting local decision to adopt practices that reduce the use of petroleum in the transportation sector. Clean Cities coordinators lead local geographically-based coalitions composed of local fleets, fuel providers, and decision-makers that focus on a united goal: petroleum reduction. Since its inception in 1993, Clean Cities and its stakeholders have displaced more than 2 billion gallons of petroleum.

- \$292,000 will be used for administrative support for the Office of Policy and Management to administer the state energy plan and energy block grants to municipalities.

\$300,000 will be used for Building Code Training and Compliance

- \$300,000 will be used by the Connecticut Department of Public Safety to update the energy code portion of the State Building Code, develop and implement building code training for officials across the state and develop a measurement system that will evaluate the rate of compliance with the updated energy code portion of the state building code.

The plan that has been developed and is before you today, meets the stringent federal requirements as established under SEP and the ARRA as well as supporting and enhancing the goals and objectives of Connecticut's energy policy framework. I am excited about the opportunity we have before us today to support these energy initiatives, enhance economic development within the state and provide the citizens of Connecticut with programs to ensure the stability of our energy future.

I remind the committees that the deadline to submit this plan to the U.S. Department of Energy is 8:00 pm on May 12, 2009.

I thank the committees for this opportunity to testify before you.



M. JODI RELL
GOVERNOR

STATE OF CONNECTICUT
EXECUTIVE CHAMBERS

The Honorable Steven Chu, Secretary
United States Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

March 23, 2009

Dear Secretary Chu:

Re: State Energy Program Assurances

In accordance with Section 410 of the American Recovery and Reinvestment Act of 2009, I hereby notify you that I have obtained necessary assurances that each of the following will occur:

- (1) The applicable State regulatory authority will seek to implement, in appropriate proceedings for each electric and gas utility, with respect to which the State regulatory authority has ratemaking authority, a general policy that ensures that utility financial incentives are aligned with helping their customers use energy more efficiently and that provide timely cost recovery and timely earnings opportunity for utilities associated with cost-effective measurable and verifiable efficiency savings, in a way that sustains or enhances utility customers' incentives to use energy more efficiently.
- (2) The State, or the applicable units of local government that have authority to adopt building codes, will implement the following:
 - (A) A building energy code (or codes) for residential buildings that meets or exceeds the most recently published International Energy Conservation Code, or achieves equivalent or greater energy savings.
 - (B) A building energy code (or codes) for commercial buildings throughout the State that meets or exceeds the ANSI/ASHRAE/IESNA Standard 90.1-2007, or achieves equivalent or greater energy savings.
 - (C) A plan for achieving compliance with the building energy code or codes described in subparagraphs (A) and (B) within eight years of the date of enactment of the American Recovery and Reinvestment

Act of 2009 in at least 90 percent of new and renovated residential and commercial building space. This plan will include active training and enforcement programs and annual measurement of the rate of compliance.

- (3) The State will to the extent practicable prioritize the grants toward funding energy efficiency and renewable energy programs, including:
- (A) the expansion of existing energy efficiency programs approved by the State or the appropriate regulatory authority, including energy efficiency retrofits of buildings and industrial facilities, that are funded by the State or through rates under the oversight of the applicable regulatory authority, to the extent applicable;
 - (B) the expansion of existing programs, approved by the State or the appropriate regulatory authority, to support renewable energy projects and deployment activities, including programs operated by entities which have the authority and capability to manage and distribute grants, loans, performance incentives, and other forms of financial assistance; and
 - (C) cooperation and joint activities between States to advance more efficient and effective use of this funding to support the priorities described above.



M. Jodi Rell
Governor of the State of Connecticut

3/23/09

Date

